CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/SSJ/W.No.13/CSR-03/599d/CEMENT/2017-18 Date: 23.03.2018

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S.S. Joshi** (M/s. Pragathi Enterprises), No.17/2, 9th F Main, Pipeline Road, Vijayanagara, Bangalore – 560 040.
* Name of Work	:	Construction of RCC drains in Vivekananda road in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/294/2017-18 Dated: 19.03.2018
* Sample ID	:	Cement
Sample Received on	:	21.03.2018
Period of Testing	:	21.03.2018 to 23.03.2018

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	175 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Building & Highway Material Testing Laboratory

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T-2377

Job No.: CTCE/BBMP/SSJ/W.No.13/CSR-03/599d/SAND-Gradation/2017-18

23.03.2018

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. S.S. Joshi** (M/s. Pragathi Enterprises), No.17/2, 9th F Main, Pipeline Road, Vijayanagara, Bangalore – 560 040.
* Name of Work	: Construction of RCC drains in Vivekananda road in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: EE/DD/WO/294/2017-18 Dated: 19.03.2018
* Sample ID	: Fine Aggregates
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 21.03.2018
Date of Testing	: 23.03.2018

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.50	90-100	90-100	90-100	95-100
2.36	77.50	60-95	75-100	85-100	95-100
1.18	56.50	30-70	55-90	75-100	90-100
600 Micron	37.30	15-34	35-59	60-79	80-100
300 Micron	17.30	5-20	8-30	12-40	15-50
150 Micron	5.30	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Job No.: CTCE/BBMP/SSJ/W.No.13/CSR-03/599d/AGG/GR/2017-18

23.03.2018

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S.S. Joshi** (M/s. Pragathi Enterprises), No.17/2, 9th F Main, Pipeline Road, Vijayanagara, Bangalore – 560 040.
* Name of Work	:	Construction of RCC drains in Vivekananda road in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference		EE/DD/WO/294/2017-18 Dated: 19.03.2018
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	21.03.2018
Date of Testing	:	23.03.2018

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.40	95-100	85-100
20	41.40	30-70	0-20
10	17.10	10-35	0-5
4.75	2.64	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/SSJ/W.No.13/Steel/2017-18

26.03.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S.S. Joshi** (M/s. Pragathi Enterprises), No.17/2, 9th F Main, Pipeline Road, Vijayanagara, Bangalore – 560 040.
* Name of work	:	Construction of RCC drains in Vivekananda road in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/294/2017-18 Dated: 19.03.2018
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	26.03.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	512	553	13.05	O.K	O.K

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Job No.: CTCE/BBMP/SSJ/W.No.13/Steel/2017-18 26.03.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S.S. Joshi** (M/s. Pragathi Enterprises), No.17/2, 9th F Main, Pipeline Road, Vijayanagara, Bangalore – 560 040.
* Name of work	:	Construction of RCC drains in Vivekananda road in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/294/2017-18 Dated: 19.03.2018
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	26.03.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	515	556	13.2	O.K	O.K

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Job No.:CTCE/BBMP/SSJ/W.No.13/CSR-03/599d/Cube/2017-18

25.04.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S.S. Joshi** (M/s. Pragathi Enterprises), No.17/2, 9th F Main, Pipeline Road, Vijayanagara, Bangalore – 560 040.
* Name of the work	:	Construction of RCC drains in Vivekananda road in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/294/2017-18 Dated: 19.03.2018
* Sample ID	:	RCC Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.04.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.03.2018	25.04.2018	8.115	499.5	22.20
2	28.03.2018	25.04.2018	8.220	516.3	22.95
3	28.03.2018	25.04.2018	8.360	522.9	23.24

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